# Evaluate Continuing Calibration Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121616\
Data File : BF091699.D
Acq On : 17 Dec 2016 4:27
Operator : UM/SJ
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

**Instrument :** BNA_F
**LabSampleId :** SSTDCCC040

Quant Time: Dec 17 05:14:43 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 16 00:35:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 2 | | 1,4-Dioxane | 0.627 | 0.786 | -25.4# | 110 | -0.01 |
| 3 | | Pyridine | 1.669 | 2.147 | -28.6# | 104 | -0.02 |
| 4 | | n-Nitrosodimethylamine | 0.717 | 0.920 | -28.3# | 109 | -0.01 |
| 5 | S | 2-Fluorophenol | 1.187 | 1.045 | 12.0 | 74 | 0.00 |
| 6 | | Aniline | 1.940 | 1.713 | 11.7 | 77 | -0.01 |
| 7 | S | Phenol-d6 | 1.480 | 1.804 | -21.9 | 111 | 0.00 |
| 8 | | 2-Chlorophenol | 1.340 | 1.614 | -20.4 | 100 | 0.00 |
| 9 | | Benzaldehyde | 1.018 | 1.098 | -7.9 | 102 | -0.01 |
| 10 | C | Phenol | 1.730 | 1.748 | -1.0 | 101 | 0.00 |
| 11 | | bis(2-Chloroethyl)ether | 1.300 | 1.272 | 2.2 | 81 | 0.00 |
| 12 | | 1,3-Dichlorobenzene | 1.453 | 1.580 | -8.7 | 99 | -0.01 |
| 13 | C | 1,4-Dichlorobenzene | 1.433 | 1.713 | -19.5 | 105 | -0.01 |
| 14 | | 1,2-Dichlorobenzene | 1.292 | 1.559 | -20.7 | 99 | 0.00 |
| 15 | | Benzyl Alcohol | 1.168 | 1.381 | -18.2 | 104 | 0.00 |
| 16 | | 2,2'-oxybis(1-Chloropropane | 2.014 | 2.623 | -30.2# | 108 | -0.01 |
| 17 | | 2-Methylphenol | 1.109 | 1.370 | -23.5 | 104 | 0.00 |
| 18 | | Hexachloroethane | 0.559 | 0.576 | -3.0 | 88 | -0.01 |
| 19 | P | n-Nitroso-di-n-propylamine | 0.925 | 1.265 | -36.8# | 114 | 0.00 |
| 20 | | 3+4-Methylphenols | 1.359 | 1.702 | -25.2# | 125 | 0.00 |
| 21 | I | Naphthalene-d8 | 1.000 | 1.000 | 0.0 | 105 | -0.01 |
| 22 | | Acetophenone | 0.479 | 0.490 | -2.3 | 112 | 0.00 |
| 23 | S | Nitrobenzene-d5 | 0.358 | 0.361 | -0.8 | 107 | -0.01 |
| 24 | | Nitrobenzene | 0.379 | 0.411 | -8.4 | 106 | 0.00 |
| 25 | | Isophorone | 0.637 | 0.636 | 0.2 | 106 | -0.01 |
| 26 | C | 2-Nitrophenol | 0.167 | 0.168 | -0.6 | 99 | 0.00 |
| 27 | | 2,4-Dimethylphenol | 0.293 | 0.319 | -8.9 | 123 | 0.00 |
| 28 | | bis(2-Chloroethoxy)methane | 0.374 | 0.429 | -14.7 | 117 | 0.00 |
| 29 | C | 2,4-Dichlorophenol | 0.255 | 0.256 | -0.4 | 99 | -0.01 |
| 30 | | 1,2,4-Trichlorobenzene | 0.290 | 0.291 | -0.3 | 110 | -0.01 |
| 31 | | Naphthalene | 0.931 | 0.930 | 0.1 | 110 | -0.01 |
| 32 | | Benzoic acid | 0.195 | 0.151 | 22.6 | 81 | -0.01 |
| 33 | | 4-Chloroaniline | 0.401 | 0.425 | -6.0 | 116 | 0.00 |
| 34 | C | Hexachlorobutadiene | 0.166 | 0.170 | -2.4 | 105 | 0.00 |
| 35 | | Caprolactam | 0.075 | 0.065 | 13.3 | 97 | -0.01 |
| 36 | C | 4-Chloro-3-methylphenol | 0.286 | 0.249 | 12.9 | 88 | -0.01 |
| 37 | | 2-Methylnaphthalene | 0.602 | 0.606 | -0.7 | 110 | 0.00 |
| 38 | I | Acenaphthene-d10 | 1.000 | 1.000 | 0.0 | 93 | -0.01 |
| 39 | | 1,2,4,5-Tetrachlorobenzene | 0.549 | 0.566 | -3.1 | 106 | -0.01 |
| 40 | P | Hexachlorocyclopentadiene | 0.245 | 0.052 | 78.8# | 19# | -0.01 |
| 41 | S | 2,4,6-Tribromophenol | 0.166 | 0.141 | 15.1 | 82 | -0.01 |
| 42 | C | 2,4,6-Trichlorophenol | 0.352 | 0.355 | -0.9 | 89 | -0.01 |
| 43 | | 2,4,5-Trichlorophenol | 0.362 | 0.366 | -1.1 | 102 | 0.00 |
| 44 | S | 2-Fluorobiphenyl | 1.157 | 1.294 | -11.8 | 108 | 0.00 |

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| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 45 | | 1,1'-Biphenyl | 1.449 | 1.492 | -3.0 | 104 | -0.01 |
| 46 | | 2-Chloronaphthalene | 1.122 | 1.115 | 0.6 | 100 | -0.01 |
| 47 | | 2-Nitroaniline | 0.377 | 0.453 | -20.2 | 109 | 0.00 |
| 48 | | Acenaphthylene | 1.710 | 1.678 | 1.9 | 96 | -0.01 |
| 49 | | Dimethylphthalate | 1.266 | 1.500 | -18.5 | 108 | -0.01 |
| 50 | | 2,6-Dinitrotoluene | 0.278 | 0.289 | -4.0 | 92 | -0.01 |
| 51 | C | Acenaphthene | 1.188 | 1.080 | 9.1 | 89 | -0.01 |
| 52 | | 3-Nitroaniline | 0.327 | 0.398 | -21.7 | 107 | -0.01 |
| 53 | P | 2,4-Dinitrophenol | 0.103 | 0.012# | 88.3# | 10# | -0.01 |
| 54 | | Dibenzofuran | 1.469 | 1.423 | 3.1 | 94 | -0.01 |
| 55 | P | 4-Nitrophenol | 0.243 | 0.190 | 21.8 | 63 | -0.01 |
| 56 | | 2,4-Dinitrotoluene | 0.348 | 0.334 | 4.0 | 81 | -0.01 |
| 57 | | Fluorene | 1.127 | 0.992 | 12.0 | 93 | -0.01 |
| 58 | | 2,3,4,6-Tetrachlorophenol | 0.284 | 0.264 | 7.0 | 83 | -0.01 |
| 59 | | Diethylphthalate | 1.219 | 1.403 | -15.1 | 104 | -0.01 |
| 60 | | 4-Chlorophenyl-phenylether | 0.528 | 0.537 | -1.7 | 98 | -0.01 |
| 61 | | 4-Nitroaniline | 0.324 | 0.323 | 0.3 | 101 | -0.01 |
| 62 | | Azobenzene | 1.382 | 1.358 | 1.7 | 88 | -0.01 |
| 63 | I | Phenanthrene-d10 | 1.000 | 1.000 | 0.0 | 80 | -0.01 |
| 64 | | 4,6-Dinitro-2-methylphenol | 0.099 | 0.018 | 81.8# | 13# | -0.01 |
| 65 | c | n-Nitrosodiphenylamine | 0.596 | 0.649 | -8.9 | 95 | -0.01 |
| 66 | | 4-Bromophenyl-phenylether | 0.205 | 0.228 | -11.2 | 90 | -0.01 |
| 67 | | Hexachlorobenzene | 0.213 | 0.223 | -4.7 | 89 | -0.01 |
| 68 | | Atrazine | 0.192 | 0.163 | 15.1 | 68 | -0.01 |
| 69 | C | Pentachlorophenol | 0.120 | 0.115 | 4.2 | 74 | -0.01 |
| 70 | | Phenanthrene | 0.990 | 1.068 | -7.9 | 90 | -0.01 |
| 71 | | Anthracene | 1.068 | 1.032 | 3.4 | 79 | -0.01 |
| 72 | | Carbazole | 0.936 | 0.918 | 1.9 | 86 | -0.01 |
| 73 | | Di-n-butylphthalate | 1.091 | 1.311 | -20.2 | 93 | -0.01 |
| 74 | C | Fluoranthene | 1.037 | 1.095 | -5.6 | 83 | -0.01 |
| 75 | I | Chrysene-d12 | 1.000 | 1.000 | 0.0 | 95 | -0.01 |
| 76 | | Benzidine | 0.618 | 0.488 | 21.0 | 73 | -0.01 |
| 77 | | Pyrene | 1.587 | 1.373 | 13.5 | 79 | -0.01 |
| 78 | S | Terphenyl-d14 | 0.881 | 0.779 | 11.6 | 81 | -0.02 |
| 79 | | Butylbenzylphthalate | 0.619 | 0.653 | -5.5 | 98 | -0.01 |
| 80 | | Benzo(a)anthracene | 1.162 | 1.162 | 0.0 | 96 | -0.01 |
| 81 | | 3,3'-Dichlorobenzidine | 0.417 | 0.467 | -12.0 | 108 | -0.01 |
| 82 | | Chrysene | 1.215 | 1.176 | 3.2 | 90 | -0.01 |
| 83 | | Bis(2-ethylhexyl)phthalate | 0.794 | 0.809 | -1.9 | 94 | -0.01 |
| 84 | c | Di-n-octyl phthalate | 1.347 | 1.661 | -23.3# | 108 | -0.01 |
| 85 | | Indeno(1,2,3-cd)pyrene | 1.094 | 0.912 | 16.6 | 78 | -0.02 |
| 86 | I | Perylene-d12 | 1.000 | 1.000 | 0.0 | 80 | -0.01 |
| 87 | | Benzo(b)fluoranthene | 1.192 | 1.237 | -3.8 | 82 | -0.01 |

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|---|---|---|---|---|---|---|
| 88 | Benzo(k)fluoranthene | 1.048 | 1.203 | -14.8 | 104 | -0.01 |
| 89 C | Benzo(a)pyrene | 1.074 | 1.148 | -6.9 | 87 | -0.01 |
| 90 | Dibenzo(a,h)anthracene | 0.962 | 0.909 | 5.5 | 78 | -0.02 |
| 91 | Benzo(g,h,i)perylene | 0.979 | 0.896 | 8.5 | 77 | -0.03 |

(#) = Out of Range SPCC's out = 1 CCC's out = 1